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Re: United States Application No. 09/381,890
PCT/GB98/00950 (WO 98/44898)
DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE
Our Ref.: 08291-619001

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Dear M. Ledon:

In order to proceed with the above-identified United States Patent Application for Project System H, it is necessary for you to execute the enclosed Combined Declaration and Power of Attorney. Attached to the Declaration is a complete copy of the Application including the written description, claims and drawings, which was published as WO98/44898 on 15 October 1998.

We would like to remind you that you are under obligation to sign the declaration by virtue of your continuing contractual obligations with Reckitt & Colman France. You have already assigned your rights in this application to Reckitt & Colman France. The enclosed declaration is a formal requirement under the patent laws of the United States.

We are not able to obtain stamps for the return envelope, I am also enclosing ten € in cash in order to cover return postage.

I would very much appreciate your signing the enclosed Declaration without detaching WO98/44898, and returning it to us as soon as possible.

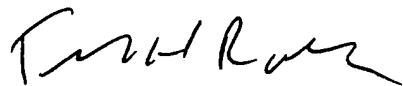
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I thank you in anticipation of your prompt attention to this matter and look forward to receiving the executed document as a matter of extreme urgency.

FISH & CHARDSON P.C.

M. Philippe Ledon
20 November 2002
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Yours very truly,



Frederick H. Rabin

FHR/myw

Enclosure

cc: Ms. Amanda Wilde, Reckitt Benckiser plc, Ref. 10456P2USw

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<p>(54) Title: DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE</p> <p>(57) Abstract</p> <p>A depilatory composition in the form of an aqueous gel comprises a substance capable of degrading hair keratin and a water-soluble polymeric binder and is buffered to a pH of from 10.5 to 13.0. The polymeric binder is formed from a first component that is a charged cross-linked polymer and a second component that comprises a linear non-ionic and/or charged polymer. The composition is preferably in the form of a stable gel that can be applied by means of a pump spray.</p>			

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DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE

This invention relates to depilatory compositions, in particular those in the form of a gel.

5 Compositions for removing superfluous body hair are well known. These are of various types. One type of composition is in the form of a cream containing a depilatory agent which degrades hair keratin. In the case of a depilatory cream, hair is 10 removed by applying the cream to an area of skin to be depilated, leaving the cream on the skin for sufficient time for the hair to be chemically dissolved, and then wiping and/or washing the cream and unwanted hair from the skin. Another type of composition is in the form of a wax, which is 15 initially heated before being applied to the skin in a generally molten state. It is then allowed to solidify before being removed from the skin together with unwanted hair.

20 British patent specification no. GB 2 223 170 discloses a two-part depilatory composition in which the first part comprises polyvinyl alcohol (PVA) and the second part comprises borax and a polyhydroxy alcohol, or Congo red; the second part functioning to effect a controlled rate of cross-linking of the PVA. 25 After *in situ* cross-linking, such compositions solidify, requiring the use of a plasticiser to enable the solid to be peeled from the skin. Such compositions preferably also include a surfactant.

30 Depilatory compositions in the form of a gel are less common and attempts to market such gels have had

only limited success. The gels tended to have a higher skin irritancy than cream depilatories and became very sticky when being rinsed off because of the nature of the polymer present in the formulation. Moreover, depilatory compositions need to be of high pH, and problems were encountered in formulating a gel which would be stable in such highly alkaline conditions.

It is an aim of the present invention to provide a depilatory composition in the form of a gel which does not suffer from these disadvantages.

It is a further aim of the present invention to provide a depilatory composition in the form of a gel which may be sprayed onto the skin without propellant.

It is another aim of the present invention to provide a depilatory gel having a reduced tendency to irritate the skin.

It has been found that these aims can be achieved by forming a gel from two water-soluble polymeric components and in a pH environment maintained by a preferred buffer system. One of the polymeric components provides the gel with appropriate viscosity and the other polymeric component contributes to the stability of the gel.

Accordingly, one aspect of the present invention provides a depilatory composition in the form of an aqueous alkaline gel comprising:-

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- (i) a first polymeric binder comprising a charged, cross-linked, water-soluble polymer;
- 5 (ii) a second polymeric binder comprising a linear, water-soluble polymer;
- (iii) a depilatory agent; and
- 10 (iv) a buffer system capable of maintaining the pH of the composition at a value of from 10.5 to 13.0.

Preferably, the composition remains in the form of an aqueous alkaline gel in use.

15 According to another aspect of the present invention, there is provided a process for producing a depilatory composition, which process comprises:-

- (i) forming a first premix by mixing water and a first polymeric binder comprising a charged, cross-linked, water-soluble polymer; forming a second premix by mixing water, a buffer and a second polymeric binder comprising a linear, water-soluble polymer; and optionally forming a third premix by mixing a depilatory agent and a keratin degradation accelerator;
- 20 (ii) adding a depilatory agent or the third premix to the second premix with stirring;

(iii) adding the first premix to the resultant mixture with stirring; and

(iv) adjusting the pH to between 10.5 and 13.0.

5

The depilatory compositions of the present invention accordingly possess unique rheological qualities, which can be defined *inter alia* by their characteristic viscosity properties. For example, 10 the shear rate (in seconds^{-1}) needed to decrease the viscosity of the gel by half is in the range of from about 10^{-2} s^{-1} to about 200 s^{-1} , preferably from about 1 s^{-1} to about 50 s^{-1} . Such a large drop in the viscosity of depilatory compositions is not seen with prior art formulations over these shear rate ranges. 15 At a low shear rate of about 10^{-2} s^{-1} , the viscosity of the compositions of the present invention is of the order of 10^3 Pas (10^6 cP), whereas at a high shear rate of about 500 s^{-1} , their viscosity is of the order of about 0.1 Pas (100 cP). At a very high shear rate of 20 the order of $4 \times 10^4 \text{ s}^{-1}$, such as that effected by a spray-pump (see Table 2 below), it is extremely difficult to measure viscosity, but it can be envisaged that that of the compositions of the present invention would be very low.

25 Preferably, a gel in accordance with the present invention has unique viscosity and elasticity, sustained high ionic strength and high pH.

30 The cross-linked polymer of the first component is such that it swells at high pH (pH 10.5 to 13) and preferably has only carbon-carbon bond

cross-linkages. More preferably, the elastic modulus of the first component is in the range of from 200 Pa to 1000 Pa, conveniently, 400 Pa to 600 Pa, when measured at a frequency of 10 rad/s; at a temperature of 20°C and a strain of 0.1. The elastic (storage) 5 modulus (G') corresponds to the energy which can be stored and released by the material.

Suitable first components include a cross-linked acrylic polymer such as a carbomer, for example, 10 Ultrez 10 and/or Carbopol ETD 2020 from Goodrich, and Structure 2000 and 3001 from National Starch. Another suitable polymer is a cross-linked polyacrylamide such as Seppigel 305. Most preferably, the polymer of the first component is a copolymer of methyl vinyl ether and maleic anhydride 15 cross-linked with dodecadiene available from ISP under the trade designation Antaron Stabilise 06.

Preferably, the depilatory composition includes from 0.1% to 3.0% by weight of the first component. 20 The second component is a linear non-ionic polymer and/or a positively charged polymer and/or a negatively charged polymer. The second, linear component is one which acts as a suspending agent for the gel and moderates the elastic modulus thereof to 25 enable spreadability. Any suitable linear polymer may be chosen which enables the gel structure to be maintained at the osmotic pressure in the composition. Such linear polymers include hydrophilic polymers having a molecular weight of less than about 600 and non-ionic gel-forming 30 polymers. For example, the second component may

comprise a water-soluble non-ionic polymer such as polyethylenimine, polyethylene oxide or polyethylene glycol (PEG), a hydrophobically-modified polyol such as Acrysol 44 from Rohm and Haas, or a polyvinyl pyrrolidone such as PVP K from ISP or Luviskol from 5 BASF.

Alternatively, or additionally, the second component may comprise a natural water-soluble polymer such as cellulose, hydroxypropyl cellulose, 10 cetyl hydroxyethyl or propyl cellulose (for example Natrosol Plus from Aqualon), starch, polyglucoside, a polysaccharide such as an alginate, guar gum, 15 carrageenan (lambda, kappa, iota), a sclerotium gum, a polypeptide with or without any alkyl chain (C1 to C18) modification and cationic end groups such as quaternary ammonium groups with counter ions such as 20 chlorides and bromides, or a copolymer of sodium acrylate and dimethyl diallyl ammonium chloride (such as that known as Merquat), or a copolymer of hydroxy ethyl cellulose and dimethyl diallyl ammonium chloride (such as that known as Celquat).

Most preferably, the second component comprises polyethylenimine (such as that known under the trade name Lupasol from BASF) and/or polyvinyl pyrrolidone (such as that known under the trade designation PVP 25 K-30 from ISP).

Preferably, the depilatory composition includes from 0.2% to 3.0% by weight of the second component.

30 The first and second components, when combined in accordance with the present invention, form a

polymeric binder having unique viscosity and elasticity.

5 The depilatory agent may comprise any substance capable of degrading keratin and may be, for example, a sulphur compound such as potassium thioglycolate, dipotassium thioglycolate or thioglycerol.

10 Preferably, the depilatory composition includes from 0.1% to 6.0% by weight of depilatory agent, preferably from about 3.0% to 5.0%.

15 Also, the composition may optionally include component(s) which will accelerate the keratin reduction reaction such as urea, thiourea or dithioerythritol, dimethyl isosorbide (DMI), ethoxydiglycol (Transcutol) and methyl propyldiol (MP diol). DMI is preferred.

20 It is important that the pH of the composition is in the range of from about 10.5 to 13, and preferably about 11.0 to 12.5, to provide good depilation within about 5 minutes. In order to achieve this, a suitable buffer should be present, such as sodium silicate and/or L-arginine, sodium nicotinate and potassium polyethylenimine or a phosphate.

25 Generally, the buffer system will be present in an amount of from about 2.0% to 8.0% by weight, preferably from about 2.0% to 4.0% by weight.

30 Advantageously, the buffer system comprises from 2.0% to 3.0% by weight of L-arginine and from 0 to 1.0% by weight of polyethylenimine.

The pH buffer system preferably ensures efficacy of the depilation within 5 minutes whilst also minimizing skin irritation.

5

In order to achieve minimum skin irritation, a composition including L-arginine and/or polyethylenimine, urea and potassium and/or dipotassium thioglycolate is preferred.

10

In accordance with a preferred depilatory composition of the present invention, there is provided an aqueous alkaline gel comprising:

15

(i) 0.1% to 3.0% w/w of a first polymeric binder comprising a charged, cross-linked, water-soluble polymer, preferably a copolymer of methyl vinyl ether and maleic anhydride cross-linked with dodecadiene;

20

(ii) 0.2% to 3.0% w/w of a second polymeric binder comprising a linear, water-soluble polymer, preferably polyethylenimine and/or polyvinyl pyrrolidone;

25

(iii) 0.1% to 6.0% w/w, preferably 3.0% to 5.0% w/w of a depilatory agent, preferably potassium and/or dipotassium thioglycolate;

30

(iv) 2.0% to 6.0% w/w, preferably 2.0% to 4.0% w/w of a buffer system, preferably L-arginine and/or polyethylenimine; and, optionally,

(v) 5.0% to 10.0% w/w of an acelerator for the degradation of keratin, preferably urea;

whereby the composition preferably remains in the form of an aqueous alkaline gel in use.

5

The gels according to the present invention are preferably transparent and remain transparent in use, depending on the amount of active ingredients present and on the procedure of mixing. Generally, they have 10 a thick, rich feel and excellent rinsability with water. Moreover it is not necessary to include a surfactant in the compositions of the present invention, and hence they are less likely to cause skin damage.

15 Due to the special rheology of the polymeric binder, it is possible to include beads, dyes and/or oily particles which will remain dispersed in the gel. Optional excipients include compounds for soothing the skin such as azulene or jojoba and 20 polyethylene glycol ester to reduce irritation.

20 Suitable beads include encapsulated algae extract and sweet almond oil (Elespher). It is also possible to include hydrating, accelerating and/or reducing agents in beads. For example, water-soluble materials such as urea, potassium thioglycolate or 25 thioglycerol can be included in beads, so that these actives are encapsulated.

30 Although it is possible to provide a gel in accordance with the present invention that has visco-elastic properties suitable for spraying, the depilatory material may alternatively be applied by

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means of a roll-on device or in conventional shower gel packaging.

5 Other ingredients may be included in the compositions of the invention, such as are known in the art.

Unless otherwise stated, all percentage weights referred to herein are % weights based on the weight of the total composition.

10

For a better understanding of the invention and to show how the same may be carried into effect, reference will now be made, by way of example, to the accompanying drawings, in which:-

15 Figure 1 is a graph of shear stress (Pa) against shear rate (s^{-1}) for a series of polymeric binders (first component) for the composition of the invention;

20 Figure 2 is a graph of the yield points (Pa) of the binders of Figure 1 against the cross-linked polymer (first component) contents (% w/w) of the binders;

25 Figure 3 is a graph of viscosities (Pas) of the binders of Figure 1 against the shear rate (s^{-1}) of the binders; and

Figure 4 is a graph of the elastic (G') and viscous (G'') moduli against stress/strain (Pa) of the first component of the composition.

30

The following Examples illustrate the invention:

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EXAMPLES 1 TO 6

A series of depilatory gels was prepared having the compositions shown in the following Table 1:

5

TABLE 1

	1	2	3	4	5	6
Phase 1						
Polymer A	3.0%	2.5%	2.25%	2.0%	1.5%	1.0%
deionised water	47.0%	39.0%	36.35%	31.4%	23.5%	15.7%
Phase 2						
Polymer B	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
pH buffer	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
deionised water	10.7%	19.2%	24.8%	26.4%	38.3%	45.8%
Phase 3						
potassium thioglycolate (30%)	14.7%	14.7%	14.7%	14.7%	14.7%	14.7%
urea	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Final mix						
Phase 1	50.0%	41.5%	37.5%	33.4%	25.0%	16.7%
Phase 2	15.7%	24.2%	29.8%	33.4%	43.3%	50.8%
Phase 3	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%
Potassium hydroxide 50%	11.6%	11.6%	10.0%	10.5%	9.0%	9.8%
Total	100%	100%	100%	100%	100%	100%
Total deionised water	57.5%	58.0%	59.9%	59.6%	1.6%	61.3%

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All amounts are expressed as % weight/weight total composition. Polymer A was a methyl vinyl ether/maleic anhydride copolymer cross-linked with dodecadiene known under the trade designation Antaron ST06 from ISP; and polymer B 5 was polyvinyl pyrrolidone known under the trade designation PVP K-30 from ISP. The pH buffer system was a combination of 2% w/w of L-arginine and 1% w/w of polyethylenimine.

10 In each case, an Olsa mixer with planar stirring and a high shear stirrer equipped with a vacuum and heating/cooling system was used. The procedure was as follows:

Phase 1: Premix polymer A and water.

15 The water was placed in the mixer and polymer A was added slowly with stirring. When the polymer had been dispersed, heating was commenced whilst maintaining a vacuum of about 0.5 to 0.8 bar to avoid air bubbles. The vacuum pump was operating intermittently in order to reduce water loss. When 20 the temperature had reached about 80°C an almost clear gel had been formed. This was allowed to cool and swell overnight.

Phase 2: Premix polymer B, water, pH buffer

25 The water and polymer B were introduced into the mixer and homogenised for 2 minutes. The pH buffer system was then added and the mixture homogenised for a further 2 minutes.

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Phase 3: Urea and potassium thioglycolate

The urea was added to the potassium thioglycolate in a beaker and stirred for 1 hour to complete dissolution.

5

Final mixing: The final mixing was effected as follows:-

Phase 2 was placed in the vessel and phase 3 was added with stirring for 15 minutes. A white precipitate appeared. Phase 1 was added while mixing 10 slowly under vacuum (0.5 bar) with planar stirring and the high shear stirrer operated at low speed. The mixture was homogenised for 30 minutes until a lumpy gel had been formed. The potassium hydroxide was then added. The gel became clear and 15 transparent. The pH was adjusted, as necessary, to from 11.0 to 12.5.

Each of the resultant gels was subjected to rheological measurement. The parameters considered were shear stress, shear rate, viscosity and yield 20 point. The results are shown in the Figures.

As can be seen from Figure 1, the variation of shear stress with shear rate is non-linear between 0 and 500 s⁻¹ and thus the gel has a non-Newtonian behaviour with a yield point. The yield point is the 25 stress required to make the gel flow. Figure 2 shows that the variation of the yield point (τ_0), i.e. the shear stress for zero shear rate, varies exponentially. For a small variation in the amount of polymer A, the variation in the yield point, i.e. 30 the variation in spreadability or consistency, may be significant.

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The following table, Table 2, gives characteristic shear rates of products to be sprayed with a conventional pump spray and products to be applied from a shower gel packaging.

5

TABLE 2

Type of packaging	Flow Rate (from packaging) of product (cm ³ / s)	Radius of the external output (cm)	Shear rate (s ⁻¹)
Pump Spray	0.17	0.0175 (radius of the actuator)	500-40000
Shower gel packaging	8.8	ca 0.15	500-30000

15

The relationship between shear rate and viscosity is shown in Figure 3, from which it can be seen that, at the shear rates given in Table 2, the viscosity is very low.

20

It has been found that, in order for the gel to be sprayable with a pump spray, its yield point should be not more than from 100 to 200 Pa. If, however, the gel is to be used in a shower gel pack, the yield point may be as high as 300 Pa. Also, in order for the product to remain still for 5 minutes on the skin when held vertical, the yield point needs to be about 60 Pa or more. Thus gels wherein polymer A constitutes from 2.0% to 2.5% w/w are preferred for spraying, whereas rather lower percentages of polymer A may be present where the gel is to be used in the form of a shower gel packaging.

25

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In a further series of experiments, the blue powder Azulene was dissolved in thick paraffin oil to produce a 1% w/w solution. 2% w/w of this solution was then slowly added to each of the above gels and 5 stirred for 5 minutes. The Azulene remained stably suspended within the gel in the form of blue oily droplets. Depending upon the concentration of Azulene in the premix and the concentration of premix in the gel, the size and colour of the droplets and 10 the overall transparency of the gel could be adjusted.

In a further series of experiments, 0.5% w/w of Elespher was slowly added to each gel and stirred for 5 minutes. Elespher consists of encapsulated beads 15 of algae extract and sweet almond oil, and is green in colour. The beads were stably suspended in the gel.

EXAMPLE 7

20 Gels were made in accordance with the following Table 3:

TABLE 3

25	%w/w
Phase 1	
polymer A	1-3
water	40.0
30 KOH 50%	4.0
Total phase 1	47.0

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Phase 2	
polymer B	0.6-3
buffer system	3.0
water	8.2
Total phase 2	11.8
Phase 3	
water	6.5
potassium thioglycolate (30%)	14.7
Total phase 3	29.2
water	to 100.0
KOH 50%	6.15

15

The amount of water was varied depending upon the amounts of polymers A and B present. Polymers A and B were as used in Examples 1 to 6 and the mixing technique employed was as described in those Examples. In each case, stable, sprayable depilatory gels were obtained. This showed that for a range of polymer A between 1.0% and 3.0%, a range of polymer B between 0.6% and 3.0% could be used and a stable, sprayable gel formed.

25

30

CLAIMS

1. A depilatory composition in the form of an aqueous alkaline gel comprising:

5

(i) a first polymeric binder comprising a charged, cross-linked, water-soluble polymer;

10

(ii) a second polymeric binder comprising a linear, water-soluble polymer;

(iii) a depilatory agent; and

15

(iv) a buffer system capable of maintaining the pH of the composition at a value of from 10.5 to 13.0.

20

2. A depilatory composition as claimed in claim 1, wherein the cross-linked polymer of the first component is a cross-linked acrylic polymer, a cross-linked polyacrylamide or a copolymer of methyl vinyl ether and maleic anhydride cross-linked with dodecadiene.

25

3. A depilatory composition as claimed in claim 1 or 2, which includes from 0.1 to 3.0% w/w of the first component.

30

4. A depilatory composition as claimed in any of claims 1 to 3, wherein the second component comprises a linear, non-ionic polymer and/or positively charged polymer and/or negatively charged polymer.

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5. A depilatory composition as claimed in claim 4, wherein the second component comprises one or more of polyethylenimine, polyvinyl pyrrolidone, polyethylene oxide, polyethylene glycol, cellulose, hydroxy propyl cellulose, cetyl hydroxy ethyl cellulose, cetyl hydroxy propyl cellulose, starch, a polyglucoside, a polysaccharide, guar gum, carrageenan, a sclerotium gum, a polypeptide, and a copolymer of sodium acrylate or of hydroxy ethyl cellulose with dimethyl diallyl ammonium chloride.

10

6. A depilatory composition as claimed in any preceding claim, which includes from 0.2 to 3.0% w/w of the second component.

15

7. A depilatory composition as claimed in any preceding claim, wherein the depilatory agent is potassium thioglycolate or thioglycerol.

20

8. A depilatory composition as claimed in any preceding claim, including an accelerator for the degradation of keratin, such as urea, thiourea, dithioerythritol, ethoxydiglycol or methylpropyl diol.

25

9. A depilatory composition as claimed in any preceding claim, including a buffer system comprising a silicate, arginine such as L-arginine, a nicotinate, polyethylenimine or a phosphate.

10. A depilatory composition as claimed in any preceding claim and having a yield point of not more than 200 Pa.

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11. A depilatory composition as claimed in any preceding claim, wherein the shear rate needed to decrease the viscosity of the gel by half is in the range of from 10^{-2} s^{-1} to 200 s^{-1} , preferably from 1 s^{-1} to 50 s^{-1} .

5

12. A depilatory composition as claimed in any preceding claim, in the form of a sprayable gel.

10 13. A process for producing a depilatory composition as claimed in any preceding claim, which process comprises:-

15

(i) forming a first premix by mixing water and the first component; forming a second premix by mixing water, a buffer and the second component; and optionally forming a third premix by mixing a depilatory agent and a keratin degradation accelerator;

20

(ii) adding a depilatory agent or the third premix to the second premix with stirring;

(iii) adding the first premix to the resultant mixture with stirring; and

25

(iv) adjusting the pH to between 10.5 to 13.0.

30

Fig.1.

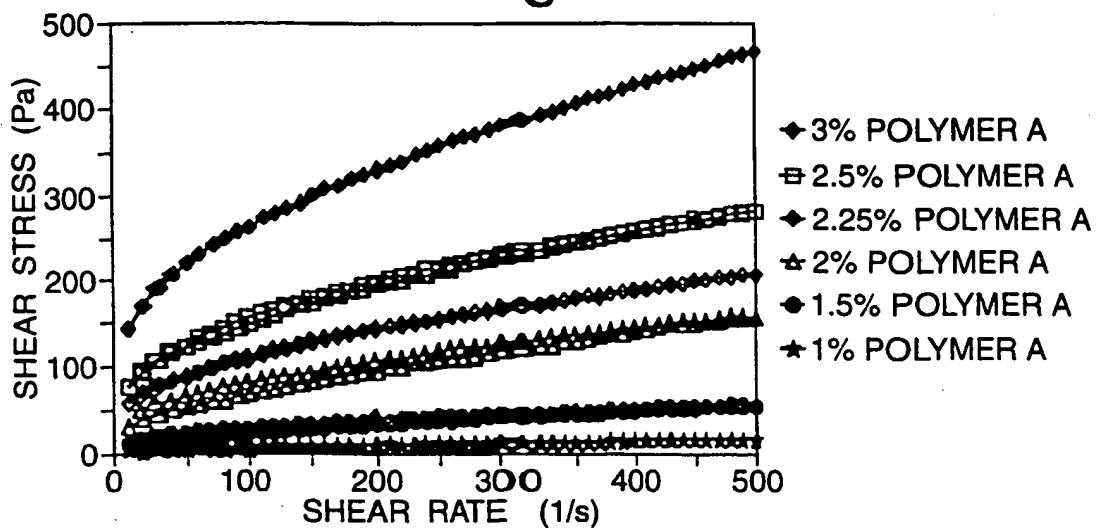


Fig.2.

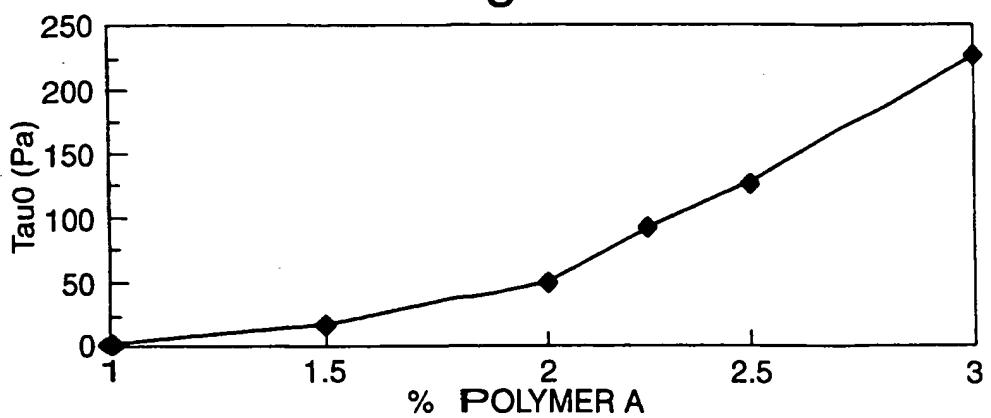


Fig.3.

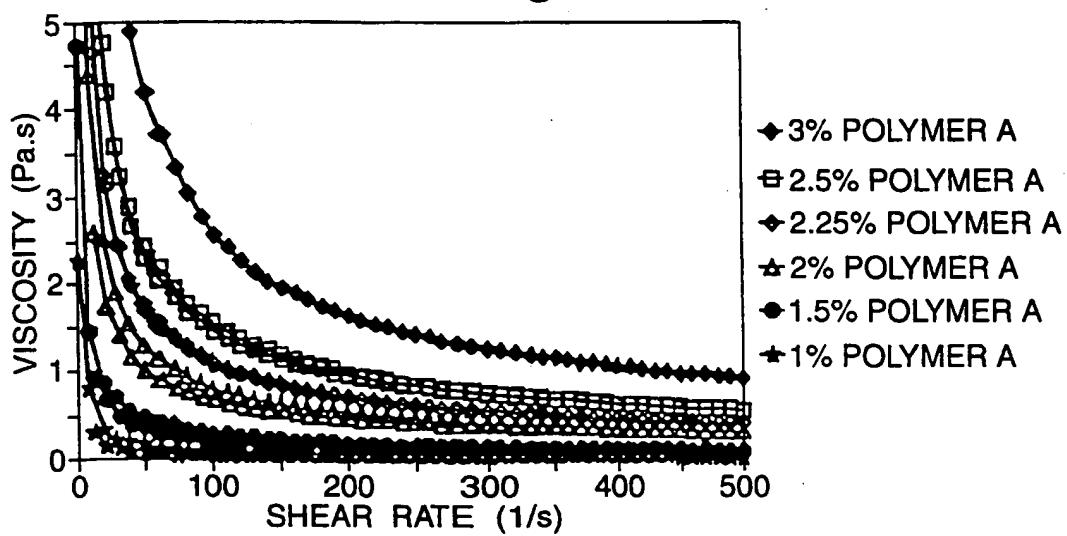
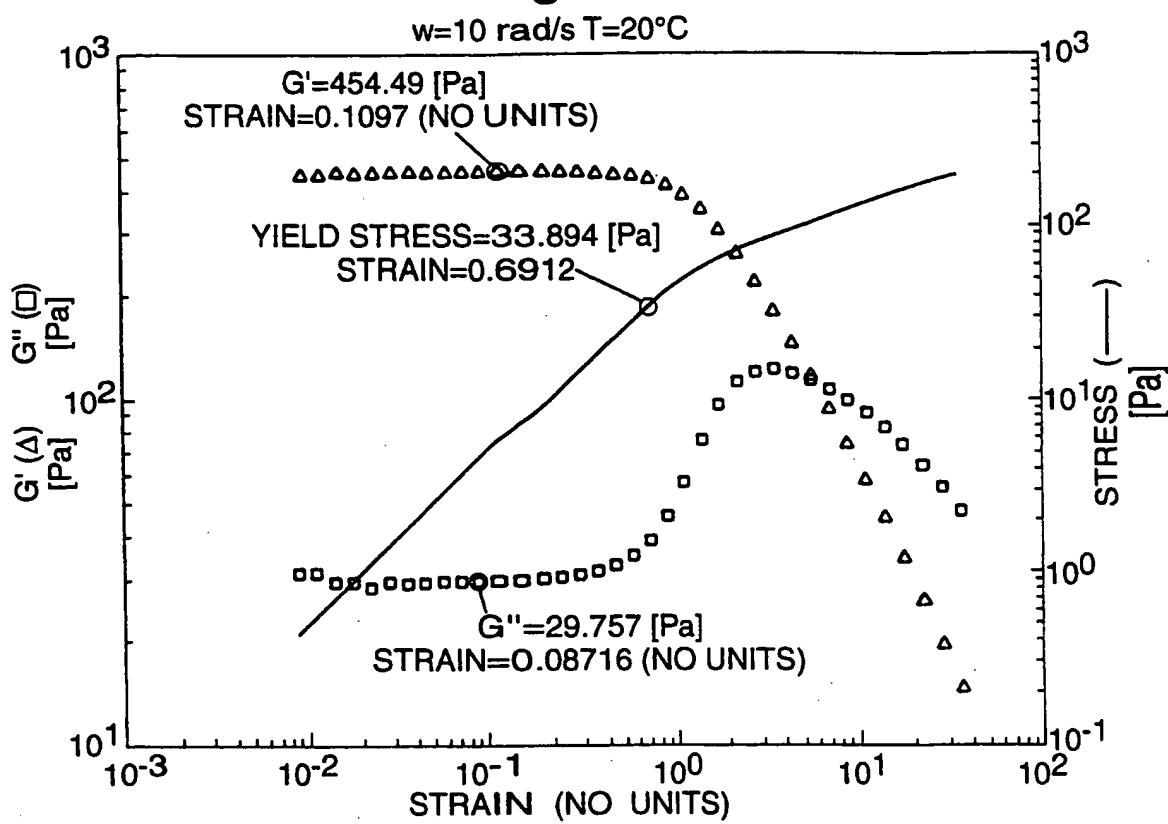


Fig.4.



INTERNATIONAL SEARCH REPORT

In application No
PCT/GB 98/00950

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61K7/155

According to International Patent Classification(IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 91 02538 A (JOHN MORRIS CO., INC.) 7 March 1991 see example 9 ---	1
A	EP 0 196 896 A (NITTO ELECTRIC IND. CO., LTD) 8 October 1986 ---	1
A	US 4 842 610 A (H. GORDON ET AL.) 27 June 1989 ---	1
A	DATABASE "CHEMICAL ABSTRACTS" (HOST: STN), Abs. 110: 198 956, Columbus, OH, USA; & JP 63 313 618 (OSAKA AEROSOL IND. CO.) 21 December 1988 XP002071920 ---	1
A, P	FR 2 751 873 A (C. DES GARETS) 6 February 1998 -----	1

Further documents are listed in the continuation of box C.

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17 July 1998	29/07/1998
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Information on patent family members

Int'l application No

PCT/GB 98/00950

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 9102538	A 07-03-1991	AU 6425590 A	03-04-1991		
		CA 2065044 A	19-02-1991		
		EP 0487648 A	03-06-1992	-	
		JP 5503071 T	27-05-1993		
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		JP 4080682 B	21-12-1992		
		JP 61276506 A	06-12-1986		
		US 4830633 A	16-05-1989		
US 4842610	A 27-06-1989	NONE			
FR 2751873	A 06-02-1998	NONE			

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I Philippe LEDON hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor, together with Bruno GUILLAUME Annick CANELAS, David ACHER, Séverine POETTE, Gerd DAHMS, Sarah DESMOTS and Hubert DELAGNEAU, of the subject matter which is claimed and for which a patent is sought on the invention entitled **DEPILATORY COMPOSITIONS, THEIR PREPARATION AND USE**, the specification of which:

was filed on September 24, 1999 as Application Serial No. 09/381,890 and, was described and claimed in PCT International Application No. PCT/GB98/00950 filed on 30 March 1998.

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British	9711447.4	4 June 1997	[X] Yes <input type="checkbox"/> No

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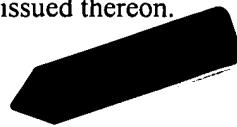
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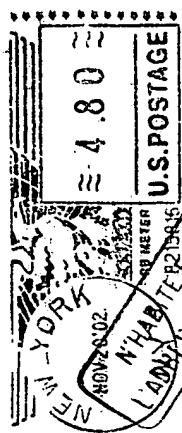
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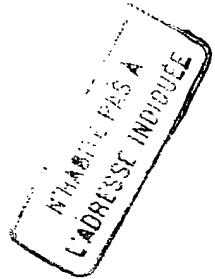
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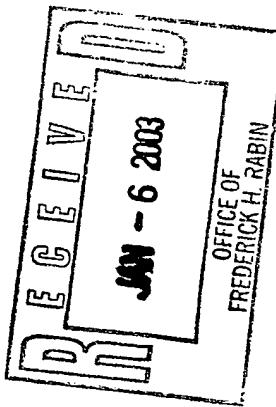
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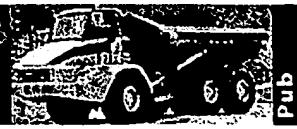
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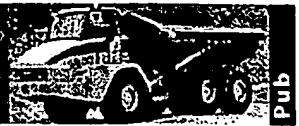
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